|   | Index of Claims   |          |          |             |                 |                    |          |          |          |               |          |          |                   |               | ppi        | plication/Control No.  |                 |          |           |           |           |           |          |               | Applicant(s)/Patent under Reexamination |        |            |               |               |     |     |            |               |                    |              |          |  |
|---|-------------------|----------|----------|-------------|-----------------|--------------------|----------|----------|----------|---------------|----------|----------|-------------------|---------------|------------|------------------------|-----------------|----------|-----------|-----------|-----------|-----------|----------|---------------|---|--------|------------|---------------|---------------|-----|-----|------------|---------------|--------------------|--------------|----------|--|
|   | Index of Claims   |          |          |             |                 |                    |          |          |          |               |          |          |                   |               | ۱,         |                        |                 |          |           |           |           |           |          |               |   |        |            |               |               |     |     | N          | IUS J.        |                    |              |          |  |
|   |                   |          |          |             |                 |                    |          |          |          |               |          |          |                   |               |            | 08/817,704<br>Examiner |                 |          |           |           |           |           |          |               |   |        | tU         |               |               | 14. | Ť   | <i>7</i> 1 | <u>103 y.</u> |                    |              |          |  |
|   |                   |          |          |             |                 |                    |          |          |          |               |          |          |                   |               |            | G. R. Ewoldt, Ph.D.    |                 |          |           |           |           |           |          |               |   | 1644   |            |               |               |     |     | _          |               |                    |              |          |  |
|   | (Through numeral) |          |          |             |                 |                    |          |          |          |               |          |          |                   |               |            |                        | _               | _        | _<br>_    |           | _         |           |          | $\overline{}$ |   | _      |            | _             | _             | _   | _   | ٦          | _             |                    |              |          |  |
|   |                   |          | <b>√</b> | R           | .eje            | ect                | ed<br>—  |          |          | -             | ļ        |          |                   | Car           | nce<br>nce | llec                   | 1               | راظ      | 4         |           | 7         | No<br>—   | ח-תנ<br> | Elected       |   |        |            | A             | <u> </u>      | Ap  | pe  | .el<br>    |               | -                  | •            |          |  |
|   |                   |          | =        |             | Allowed         |                    |          |          | ·        |               |          | F        | Restricted        |               |            |                        |                 |          |           | 1         | In        | terf      | fere     | יחנ           | 20                                      | i      | 0          |               | ОЫ            | BC  | ted |            |               |                    |              |          |  |
|   | CI                | alm      | 7        | Date        |                 |                    |          |          | _        | _             |          |          |                   | Claim         |            |                        |                 | _        | -0        | ) ate     | _         | _         | _        |               | II.                                     | Cla    | <u>im</u>  | $\sqsubseteq$ | _             | _   | Dε  | de         | _             | _                  | _            | ]        |  |
|   | -                 | 1        | 3        | 14          | 7               | 10                 | 1        | T        |          |               |          |          | Ţ,                |               | 36         |                        |                 |          |           |           |           |           |          |               |   | -      | 100        |               | $\prod$       | ]   | 1   | 1          | Ī             | T                  |              | 1        |  |
|   | Fisa              | Ortgined | RANG     | No.         | 8               | 艺                  | 1        |          |          |               |          |          | Fine              | 1             | Original   |                        |                 |          |           |           |           |           |          |               |   | Final  | Original   |               |               |     |     |            |               |                    |              |          |  |
|   |                   | 1 2      | F        | F           | F               | F                  | F        | Ŧ        | F        | F             | F        |          | F                 |               | 51<br>52   | 口                      | Д               | $\Box$   | 耳         | 4         | 4         | 4         | 7        | 7             | F                                       |        | 101<br>102 | $\Box$        | 耳             | 7   | Ŧ   | Ŧ          | Ŧ             | F                  | P            | 4        |  |
|   |                   | 3        |          | 尸           | 上               | 上                  | 土        | 土        | 士        | 上             | 上        | ╢        |                   | $\Box$        | 53         | 世                      |                 | 口        | 士         | 士         | 士         | 士         | 士        |               | t                                       | •      | 103        | H             | 士             | 士   | 士   | 士          | 士             | 士                  | 世            | j        |  |
|   | <u> </u>          | 5        | F        | F           | F               | F                  | Ŧ        | $\perp$  | Ŧ        | F             | F        | ]        | F                 | $-\mathbf{I}$ | 54<br>55   | $\Box$                 | $\Box$          | А        | $\exists$ | $\exists$ | $\exists$ | 구         | 十        | 4             | 1                                       |        | 104        | $\Box$        | 一             | 7   | Ŧ   | Ŧ          | Ŧ             | T                  | T.           | 1        |  |
|   |                   | 6        | +        | 尸           |                 | 士                  | t        | 七        | 士        | H             | +        | 1        | 上                 |               | 56         | 1                      |                 | H        | 一十        | +         | +         | +         | +        | -             | ╟                                       | _      | 105        | -             | _             | 十   | 十   | +          | 十             | +                  | ╁            | 1        |  |
|   |                   | 7        | 上        | $\sqsubset$ | 上               | 工                  | 丰        | 工        | 工        | 上             | 口        | <b>_</b> | 匚                 | $\Box$        | 57         | 口                      |                 | 口        | 耳         | コ         | コ         | ユ         | ユ        | ◢             | t                                       |        | 107        | 口             |               | 丰   | 丰   | 土          | 土             | 土                  | 口            | j ·      |  |
|   | -                 | 9        | +-       | ₩'          | ₩,              | ╀                  | ╀        | +        | ╀        | +             | ╀        | 4        | _                 |               | 88         | H                      | H               | H        | -         | $\dashv$  | $\dashv$  | 4         | +        | -             | ₽                                       |        | 108        | H             | $\dashv$      | +   | +   | 1          | $\downarrow$  | $oldsymbol{\perp}$ | F            | 4        |  |
|   |                   | 10       | 士        | 1           |                 | 士                  | t        | t        | 士        | 1             | t        |          |                   |               | 60         | H                      | $\sqcap$        | $\vdash$ | 7         | +         | +         | $\dagger$ | 十        | -             | ┢                                       |        | 110        | H             | 一             | +   | 十   | 十          | t             | +                  | ╁╌           | 1        |  |
|   |                   | 11       |          | 口           | 口               | 工                  | 丰        | 丰        | 工        | 口             | 口        | 1        |                   |               | 61         | 口                      |                 | 口        | 口         | コ         | 口         | コ         | 二        | ◢             | I                                       |        | 111        |               | 耳             | 丰   | 丰   | 丰          | 土             | 上                  | 口            | <u> </u> |  |
|   | <u> </u>          | 12       | _        | ₩           | ╀               | +                  | +        | +        | +        | +             | ╀        | 4        | $\vdash$          |               | ឧឧ         | H                      | Н               | Н        | $\dashv$  | $\dashv$  | 4         | 4         | +        | 4             | ╬                                       |        | 112        | Н             | $\dashv$      | 4   | +   | +          | +             | 1                  | H            | 1        |  |
|   | <u> </u>          | 14       |          | +-          | 七               | 七                  | +        | +        | +        | +             | +        | 1        | $\vdash$          |               | 64         | ++                     | H               | H        | $\dashv$  | +         | +         | +         | +        | -             | ₽                                       |        | 113        | ┦             | +             | +   | 十   | 十          | +             | +                  | ₩            | 1        |  |
|   |                   | 15       |          | 上           | 上               | 上                  | 丰        | 土        | 土        | 上             | 上        | 1        |                   |               | 65         | 口                      |                 | 口        | 耳         | コ         | コ         | #         | 士        |               | t                                       |        | 115        |               | $\Rightarrow$ | 土   | 士   | 士          | 士             | 土                  | t            | 1        |  |
|   | <u> </u>          | 16<br>17 |          | [-          | ₽               | +                  | Ŧ        | 7        | 丨        | L             | $\perp$  | ]        |                   |               | 66<br>67   | $\Box$                 | П               | H        | $\dashv$  | $\dashv$  | 4         | 7         | 구        | 4             | ₽                                       |        | 116        | $\Box$        | $\dashv$      | 丰   | ļ   | Ţ          | Ţ             | Ţ                  | Ļ            | 1        |  |
|   | $\vdash$          | 18       |          | V           | ┰               | 本                  | ╁        | +        | +        | $\vdash$      | 十        | -        | <u> </u> -        |               | 67<br>68   | H                      | H               | H        | 7         | $\dashv$  | $\dashv$  | +         | 十        | -             | ╟                                       |        | 117        | ↤             | 1             | +   | +   | +          | +             | +                  | $\vdash$     | 4        |  |
|   |                   | 19       |          |             |                 | $\mathbf{I}^{-}$   | 1        | 上        | I        | 上             | 上        |          |                   | П             | 69         |                        |                 |          |           | 丁         | コ         | 1         | 1        | 1             | t                                       | $\Box$ | 119        |               | 一             | t   | 七   | 七          | t             | t                  | 十            | 1        |  |
|   | _                 | 20       |          | V           | 4               | A                  | 1        | Ŧ        | L        | L             | L        | ]        | L                 |               | 70         | $\Box$                 | $\widetilde{+}$ | П        | 口         | $\exists$ | 극         | 구         | 7        | 4             | L                                       |        | 120        | 口             | $\exists$     | 工   | I   | I          | I             | 工                  | 口            | 1        |  |
|   | -                 | 22       | 十        | $\vdash$    | +               | +                  | +        | +        | +        | +             | +        | ╢        | $\vdash$          |               | 71<br>72   | H                      | H               | H        | 7         | +         | +         | 十         | +        | -             | ₽                                       |        | 121        | ┦             | +             | +   | +   | +          | +             | +                  | 十            | 4        |  |
|   |                   | 23       |          | V           | 1               | Þ                  | 上        | 士        | T        |               |          |          |                   |               | 73         | 廿                      | 一               | 一        | 1         | 1         | 1         | +         | 十        | -             | ₽                                       |        | 123        | H             | 1             | +   | +   | 十          | 十             | +                  | ╆            | 1        |  |
|   | $\square$         | 24       | $\Pi$    | П           | #               | 1                  | T        | 丰        | T        | 口             | T        | ]        | 匚                 |               | 74         | $\Box$                 | $\Box$          | $\Box$   | コ         | コ         | 7         | ユ         | 丰        | ╜             | F                                       |        | 124        | $\Box$        | 工             | 工   | 工   | 工          | I             | 上                  | 匚            | <u>.</u> |  |
|   | $\vdash$          | 25<br>26 |          | H           | ₩               | 忕                  | ╁        | +        | ┾        | ⊬             | ╀        | -        | $\vdash$          |               | 75<br>76   | H                      | Н               | $\vdash$ | $\dashv$  | $\dashv$  | $\dashv$  | +         | +        | -             | ₽                                       |        | 125        | H             | -+            | +   | +   | 4          | $\downarrow$  | 1                  | 上            | 4        |  |
| ē |                   | 27       |          | Ľ           | ۲               |                    | L        | 士        | 士        | +             | t        |          | $\vdash$          |               | 77         | H                      | $\dashv$        | 一十       | +         | +         | +         | 十         | 十        | -             | ₽                                       |        | 126        | H             | $\dashv$      | 十   | 十   | 十          | 十             | 十                  | ╀┦           | 1        |  |
|   |                   | 28       | $\Box$   | $\Box$      | $\Box$          | 口                  | L        | 工        | 二        | $\Box$        | 口        | 1        |                   |               | 78         | 口                      | $\Box$          | 口        | コ         | コ         | ユ         | ユ         | ユ        | ╜             | t                                       |        | 128        |               | $\Rightarrow$ | 士   | 士   | 士          | t             | 士                  |              | 1        |  |
|   | $\vdash$          | 30       |          | ⊬           | ⊬               | ₩,                 | ╀        | ╀        | ╀        | ₩             | ╀        | -        | -                 |               | 79<br>80   | H                      | $\dashv$        | Н        | +         | 4         | 4         | +         | 4        | ]             | ₽                                       |        | 129        | $\Box$        | 7             | 1   | ļ   | Ţ          | Į             | T                  |              | 1        |  |
|   |                   |          | 7        | Z           | Z               | TA'                | E        | 士        | +        | ۲             | H        | W        | -                 |               | 81         | 卅                      | $\dashv$        | $\vdash$ | 十         | 十         | 十         | 十         | +        | -             | ₽                                       |        | 130        | $\vdash$      | +             | 十   | ╀   | +-         | ╁             | +                  | ╁╌           | 1        |  |
|   |                   | 32       | Ш        |             | $\Box$          | $\Box$             | 口        | 工        | 二        | $\Box$        |          |          | $\sqsubset$       |               | 82         | 口                      |                 | 口        | コ         | コ         | コ         | コ         | 士        |               | L                                       |        | 132        |               | 士             | 士   | 士   | 士          | 士             | 士                  |              | 1        |  |
|   |                   | 33       |          | V           |                 | 枟                  | ₽        | +        | ╀        | ₩             | ŀ        |          | $\vdash$          |               | 83         | $\dashv$               | $\dashv$        | $\dashv$ | +         | +         | 4         | $\bar{+}$ | 4        | ]             | L                                       |        | 133        | $\Box$        | 丰             | 丰   | T   | Ţ          | T             | 工                  | $\Box$       | 1        |  |
|   |                   |          | גיו      | ।ग          |                 | W                  | ┰        | 1        | ╁        | $\vdash$      | 一        |          | _                 | _             | 85         | 一                      | $\dashv$        | 一十       | +         | +         | +         | +         | 十        | -             | ╟                                       |        | 134        | $\vdash$      | +             | +   | ╀   | ╀          | ╀             | +-'                | ╁╌┦          | 1        |  |
|   |                   | 36       |          | V           | Ø               | ×                  | 匚        | 工        |          | $\Box$        | 匚        |          |                   | 1             | 86         | 口                      | コ               | コ        | コ         | コ         | コ<br>コ    | 士         | 士        | 1             | t                                       |        | 136        | 口             | 士             | t   | 七   | 士          | 士             | 七                  | <del> </del> | 1        |  |
|   | $\vdash$          | 37<br>38 |          | Н           | $\vdash$        | ₩                  | ₽        | +-'      | $\vdash$ | $\square$     | F        |          | $\overline{L}$    |               | 87         | $\Box$                 | $\exists$       | $\Box$   | ユ         | $\exists$ | 7         | 7         | 7        | 7             | F                                       |        | 137        | 口             | 工             | 丰   | I   | 工          | 工             | 二                  | $\Box$       | 1        |  |
|   |                   | 39       | $\vdash$ | $\vdash$    | ۲               | $\vdash$           | 1        | +        | ╁╌       | H             | $\vdash$ | ░        | _                 |               | 88         | 一                      | +               | _        | +         | +         | +         | 十         | +        | -             | ╟                                       |        | 138<br>139 | $\vdash$      | +             | +   | +   | ╀          | ╄             | ┼-′                | ┦            | ł        |  |
| j | $\Box$            | 40       | $\Box$   | 口           | $\Box$          | $\Box$             | 匚        | 上        | ヒ        | $\Box$        | 匚        |          |                   |               | 90         | 寸                      | ナ               | 士        | 士         | 士         | 1         | 士         | 士        | 1             | t                                       |        | 140        | 一十            | +             | +   | 十   | +          | 十             | ╁                  | H            | 1        |  |
|   | $\vdash$          | 41       | H        | H           | Щ               | ₽                  | -        | <b>-</b> | F        | $\Box$        | $\vdash$ |          | $\overline{\Box}$ |               | 91         | $\dashv$               | 4               | コ        | ユ         | 7         | 7         | 丰         | Ŧ        | ┚             | F                                       |        | 141        | 口             | 丰             | 工   | 丰   | 工          | 二             | $\Box$             | 口            | 1        |  |
|   |                   | 43       |          | $\vdash$    | $\vdash$        | Н                  | $\vdash$ | ₩        | H        | $\vdash$      | ⊢        |          | _                 |               | 92<br>93   | 7                      | $\dashv$        | +        | +         | +         | +         | +         | +        | -             | ₽                                       |        | 142        | ⊢┼            | +             | +   | ╀   | +          | $\vdash$      | ₽                  | -            | 4        |  |
|   | $\Box$            | 44       |          | 口           |                 | $\Box$             | 匚        | 口        | 口        |               |          |          |                   |               | 94         | 士                      | ナ               | コ        | 士         | 1         | 士         | 士         | 士        | 1             | Ł                                       |        | 144        | $\dashv$      | +             | 十   | +   | +          | 十             | ╁╌┦                | H            |          |  |
| ł | $\rightarrow$     | 45<br>46 | H        | $\vdash$    | $\vdash \vdash$ | $\vdash$           | ⊬'       | ₽        | $\Box$   | $\square$     | F        |          | _                 |               | 95         | $\overline{A}$         | 7               | 4        | <b>ユ</b>  | 7         | Ŧ         | Ŧ         | Ŧ        | _₩            | L                                       | 1      | 145        | 耳             | 丰             | 丰   | 丰   | 二          | 二             | $\Box$             | 口            | 1        |  |
| l |                   | 47       | 口        | 寸           | $\Box$          | $oldsymbol{arphi}$ | ۲        | H        | H        | ightharpoonup | Η        |          | _                 |               | 96<br>97   | +                      | +               | +        | 十         | 十         | +         | +         | +        | -             | ⊦                                       |        | 146<br>147 | -+            | +             | +   | ╀   | ╁-         | ╀             | ₩                  | H            | 1        |  |
| Ţ | $\Box$            | 48       | П        | コ           | 口               | $\Box$             | $\Box$   | $\Box$   |          | 口             | $\Box$   |          | _                 | [5            | 98         | ユ                      | 丁               | コ        | 士         | 1         | 土         | 土         | 土        | ]             | t                                       |        | 148        | 士             | 士             | 士   | 士   |            | H             | U                  |              | 1        |  |
| ŀ |                   | 49<br>50 | Н        | $\dashv$    | 괚               | Н                  | ⊬√       | Н        | Н        | $\dashv$      | لــر     |          | _                 |               | 99         | +                      | 4               | 4        | 4         | 4         | Ŧ         | Ŧ         | Ŧ        | -]            | F                                       |        | 149        | ユ             | 丰             | Ŧ   | F   | $\Box$     | ₽             | $\Box$             | 口            | 1.       |  |
| L | 1                 |          |          |             |                 |                    |          |          |          |               |          | 4277042  |                   | 17            | . uu i     |                        |                 |          | •         | 4         | 1         |           |          | 11111         | 44                                      |        | 150        |               |               |     |     |            |               |                    |              |          |  |